| Substitute for PTO-1390 (Rev. 07-2005) " Approved for use through 3/31/207. ON | Transmittal Letter to the United States Designated/Elect 4B 0651-0021 | HAC'S PITTER TO A DEL COUL | | | | | | |
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| U. S. PAT | ENT AND TRADÉMARK OFFICE | ATTORNEY'S DOCKET NUMBER | | | | | | |
| | . DEPARTMENT OF COMMERCE | 21412YP | | | | | | |
| TRANSMITTAL LETTER | TO THE UNITED STATES | U.S_APPLICATION NO. (If known, see 37 CFR 1.5) | | | | | | |
| DESIGNATED/ELECTH | ED OFFICE (DO/EO/US) IG UNDER 35 U.S.C. 371 | 10/593659 | | | | | | |
| INTERNATIONAL APPLICATION NO. | | PRIORITY DATE CLAIMED | | | | | | |
| PCT/US05/009874 | 24 March 2005 | 26 March 2004 | | | | | | |
| TITLE OF INVENTION | 303/009674 24 March 2005 | | | | | | | |
| METHOD AND BIOMARKERS FOR DETECTING TUMOR ENDOTHELIAL CELL PROLIFERATION | | | | | | | | |
| APPLICANT(S) FOR DO/EO/US | | | | | | | | |
| | | Charles Charles Thona | | | | | | |
| James Hardwick, Hongyue Dai, John | R. Lamb, Laura Sepp-Lorenzino, Mi | chaef E. Severino, Chunsheng Zhang | | | | | | |
| Applicant herewith submits to the | United States Designated/Elected O | ffice (DO/EO/US) the following items and | | | | | | |
| other information: | omed States Designated 2.0000 | | | | | | | |
| 1. X This is a FIRST submission | of items concerning a filing under 35 | U.S.C. 371 _. | | | | | | |
| 2. This is a SECOND or SUB | This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. | | | | | | | |
| 3. This is an express request to include items (5), (6), (9) ar | This is an express request to begin national examination procedures [35 U.S.C. 371(f)]. The submission must include items (5), (6), (9) and (21) indicated below. | | | | | | | |
| 4. X The US has been elected (P | The US has been elected (PCT Article 31). | | | | | | | |
| 5. A copy of the International | A copy of the International Application as filed [35 U.S.C. 371(c)(2)] | | | | | | | |
| a. is attached hereto (re | [] | | | | | | | |
| _ | b. has been communicated by the International Bureau. | | | | | | | |
| c. 🔀 is not required, as the | c. x is not required, as the application was filed in the United States Receiving Office (RO/US). | | | | | | | |
| 6. An English language transla a. is attached hereto | An English language translation of the International Application as filed [35 U.S.C. 371(c)(2)]. | | | | | | | |
| b. has been previously: | | | | | | | | |
| | Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)]. | | | | | | | |
| b. have been communic | | | | | | | | |
| c. have not been made; | The state of the s | | | | | | | |
| d. 🔀 have not been made | and will not be made. | | | | | | | |
| 8. An English language transla | An English language translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)]. | | | | | | | |
| 9. An oath or declaration of th | ne inventor(s) [35 U.S.C. 371(c)(4)]. | | | | | | | |
| 10. An English language transla | ation of the annexes of the Internationa | l Preliminary Examination Report under PCT | | | | | | |
| Article 36 [35 U.S.C. 371(c Items 11 to 20 below concern othe | c)(5)]. er document(s) or information includ | led: | | | | | | |
| | Statement under 37 CFR 1.97 and 1.98 | | | | | | | |
| 12. An assignment document for | or recording. A separate cover sheet in | compliance with 37 CFR 3.28 and 3.31 | | | | | | |
| is included. 13. A preliminary amendment. | | | | | | | | |
| 1 — ' | A preliminary amendment. | | | | | | | |
| 14. An Application Data Sheet 15. A substitute specification. | An Application Data Sheet under 37 CFR 1.76. | | | | | | | |
| | change of address letter | | | | | | | |
| | ☐ A power of attorney and/or change of address letter. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. | | | | | | | |
| <u> </u> | A second copy of the published International Application under 35 U.S.C.154(d)(4). | | | | | | | |
| | A second copy of the English language translation of the international application under 35 U.S.C.154(d)(4). | | | | | | | |
| | | •• | | | | | | |
| 20. Other items or information: | • | | | | | | | |

| Substitute fo | or PTO-13 | 390 (Rev. 07-20 | 005) "Transı OMB 06 | nittal Lette | washeerd | CT | ent 100 12 1 | LSEP. KILLIN | Under 35 U.S.C. 371" |
|--|---|---|------------------------|--------------|--|--------------------------|--------------|------------------------|----------------------|
| | | rise infolion 3/31/2007. Civils up 11-10/21 | | | | ATTORNEY'S DOCKET NUMBER | | | |
| | APPLICATION NO. (If known, see 37 CFR 1.5) 0/5 93 6 5 9 PCT/US05/009874 | | | ; | 21412YP | | | | |
| | The following fees are submitted: | | | | CALCULATIONS | PTO USE ONLY | | | |
| 21. X Basic nati | ional fee | | | | | | \$300 | \$300.00 | |
| 22. Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | | | | | |
| 23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | | \$500.00 | | | |
| Additional for fo | - cnocif | cation and d | rawinge fil | led in pan | er over 100 sheets (excluding | | | \$800.00 | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | 50 sheets of | | | | |
| Total Sheets | Extra | Sheets | | | dditional 50 or fraction to a whole number) | | RATE | | |
| - 100 = | 0 | /50 | 0 | | 0 | х | \$250.00 | \$0.00 | |
| Surcharge of \$130.0 priority date [37 CF] | | | ath or decl | aration la | ter than 30 months from the | arliest | claimed | | |
| CLAIMS | | NUMBER | FILED | | NUMBER EXTRA | | RATE | | |
| Total Claims | | | 16 | - 20 = | 0 | х | \$50.00 | \$0.00 | |
| Independent Claims | | <u></u> | 6 | - 3 = | 3 | Х | \$200.00 | \$600.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00 | | | | \$360.00 | | | | | |
| TOTAL OF ABOVE CALCULATIONS (SUBTOTAL) = | | | | | = | \$1,400.00 | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest | | | | | | | | | |
| claimed priority date (37 CFR 1.492(f)) . TOTAL NATIONAL FEE = | | | | | = | \$1,400.00 | | | |
| | | | | | The assignment must be 31).\$40.00 per property. | | + | | |
| accompanies of an | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | TOTAL FEES ENCLO | SED | = | \$1,400.00 | |
| | | | | | | | | Amount to be refunded: | |
| | | | | | | | | Amount to be charged: | |
| a. A chec | k in the | amount of | \$ | | to cover the above fees is | enclo | osed. | | , |
| a. A check in the amount of \$ to cover the above fees is enclosed. b. Please charge my Deposit Account No. 13-2755 in the amount of \$1,400.00 to cover the above fees. A duplicate copy of this sheet is enclosed. | | | | | | | | | |
| c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to the Deposit Account No. 13-2755. A duplicate copy of this sheet is enclosed. | | | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR 1.137(a) or | | | | | | | | | |
| | | | | Interna | tional Application to per | iding | status. | | |
| SEND ALL CO Customer No | ••••• | ••••••••••••••••••••••••••••••••••••••• | ETO: | | | | | | |
| MERCK & CO. | | i | | | | (3) |) .o. | ~/ // | |
| Patent Department, RY60-30 | | | | | | down of | Marty Com | | |
| P.O. Box 2000 SIGNATURE 126 East Lincoln Avenue | | | | | | | | | |
| Rahway, New J | | | | | <u>P:</u> | tricia | L. Chisholm | | |
| So. | pten | ilees 2 | المراجد ا | ل | N | AME | | | |
| DATE: Se PHONE #: (7) | 20) 50: | 5720 | 1,000 | | 4: | ,822 | | | |
| PHONE #: (7) | <u>32) 594</u> | -3 <i>13</i> 8 | | | R | EGIS | TRATION N | UMBER | |

Substitute for PTO-1390 (Rev. 07-2005) "Transmittal Letter to the United States Designated/Elected Office(DO/EO/US)Concerning a Submission Under 35 U.S.C. 371" Approved for use through 3/31/2007. OMB 0651-0021

Page 1A of TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

| Attorney Docket No.: | 21412YP |
|----------------------------|--|
| International Appln No.: | PCT/US05/009874 |
| International Filing Date: | 24 March 2005 |
| Priority Date: | 26 March 2004 |
| Title: | METHOD AND BIOMARKERS FOR DETECTING TUMOR ENDOTHELIAL CELL PROLIFERATION |
| Inventors: | James Hardwick |
| | Hongyue Dai John R. Lamb Laura Septt-Lorenzino Michael E. Severino |

Chunsheng Zhang

EXPRESS MAIL CERTIFICATE

DATE OF DEPOSIT

EXPRESS MAIL NO.

EL 989585773 US

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE" ON THE ABOVE DATE IN AN ENVELOPE ADDRESSED TO COMMISSIONER FOR PATENTS P.O. BOX 1450, ALEXANDRIA, VIRGINIA 22313-1450.

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